





Table of **CONTENTS**

Excellence in measurements	4
5-year warranty	5
Room transmitters	6
Duct-mount transmitters	7
Light industrial transmitters	8
General purpose transmitters	9
Outdoor transmitters	10
Handheld meters	11

ABOUT VAISALA

Vaisala is a global leader in environmental and industrial measurements. Vaisala was founded in 1936 and is today a stock listed company, headquartered in Finland, with customers all over the world.

Curiosity and innovation are core values in our company. Our extensive knowledge and expertise are materialized in our selection of innovative products. Vaisala stands for observations for a better world. We believe in a world where measurements and observations improve every aspect of daily life.

AVAILABLE ONLINE 24/7

Our products are easily available, any time, through the Vaisala Online Store. We have fast deliveries on all new instrument as well as spare part online orders. All instruments are made to order and calibrated just before shipment.



» store.vaisala.com





Free shipping

Fast, free deliveries on all new instrument & spare part online orders



Safe payment

Easy and secure payments options



Calibration

All instruments are made to order and calibrated just before shipment

EXCELLENCE IN MEASUREMENTS



Unrivalled

PERFORMANCE

Accurate measurements are essential for healthy indoor air and improving the energy efficiency of buildings. Sensors and transmitters from Vaisala are renowned for their unrivalled performance, reliable results, and low total cost of ownership.



Healthy and **SUSTAINABLE**

The unique, cutting edge Vaisala sensor technologies are manifested throughout our versatile range of products. The transmitters have an exceptionally long lifetime and excellent measurement stability, thus being practically maintenance free. These are among the many reasons why Vaisala's products are a sustainable choice.





For cutting-edge **SOLUTIONS**

Our selection of temperature, humidity and carbon dioxide transmitters are perfect for HVAC monitoring and controls, such as building automation systems, demand-controlled ventilation and building management systems.

5-year **WARRANTY**

We are confident in the lasting quality and long lifetime of our measurement instruments. We are offering a standard warranty period of five years on our transmitters for building automation.

5-YEAR WARRANTY ON SELECTED HVAC TRANSMITTERS

Vaisala's high-quality, reliable measurement instruments offer an exceptionally long lifetime, need minimal maintenance, and provide excellent measurement stability. This makes them the ideal choice for reliable HVAC control. Our transmitters for building automation are covered by 5-year warranty.

See all warranty terms: www.vaisala.com/warranty

PREMIUM QUALITY TRANSMITTERS

with calibration certificate

ROOM TRANSMITTERS

The premium quality transmitters delivered with a traceable calibration certificate, are highly accurate, versatile devices with loads of unique features.

	HMW90 Series Humidity and Temperature Transmitters	TMW90 Series Temperature Transmitters	GMW90 Series Carbon Dioxide, Humidity and Temperature Transmitters
	Tagentian 23.7°C Herritor 22.8°s	2270 A 200 A	22.8°C (25.7°A
INSTALLATION	Wall-mount	Wall-mount	Wall-mount
OUTPUT PARAMETERS	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy Mixing ratio Absolute humidity Dew point depression	Temperature	Carbon dioxide Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy Mixing ratio Absolute humidity Dew point depression
OUTPUT OPTIONS	420 mA 05/010 V, optional relay Modbus RTU BACnet MS/TP	420 mA 05/010 V, optional relay	420 mA 05/010 V Modbus RTU BACnet MS/TP
DETAILS	IP30 enclosure Display option Optional decorative covers User exchangeable measurement modules available Accuracy ±1.7% Rh, ±0.2 °C (±0.36 °F) Calibration certificate included	IP30 enclosure Display option Optional decorative covers User exchangeable measurement modules available Accuracy ±0.2 °C (±0.36 °F) Calibration certificate included	IP30 enclosure Display option Optional LED CO ₂ indication Optional decorative covers User exchangeable measurement modules available CO ₂ measurement range 05000 ppm Accuracy ±1.7% Rh, ±0.2 °C (±0.36 °F) +50 ppm at 1000 ppm CO ₂ Calibration certificate included



DUCT-MOUNT TRANSMITTERS

The premium duct-mount transmitters, delivered with a traceable calibration certificate, are the perfect choice for air-handling units and ventilation systems control.

	HMD60 Series Humidity and Temperature Transmitters	TMD60 Series Temperature Transmitters	HMD110 Series Humidity and Temperature Transmitters
	Section 1984	Service Walter	STATE OF THE PARTY
INSTALLATION	Duct-mount	Duct-mount	Duct-mount
OUTPUT PARAMETERS	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy Absolute humidity Mixing ratio	Temperature	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy
OUTPUT OPTIONS	420 mA 010 V Modbus RTU BACnet MS/TP	420 mA	420 mA Modbus RTU
DETAILS	IP66 (NEMA4X) A robust metal enclosure Stainless steel probes Probe length options 25 cm and 10 cm (10" and 4") Accuracy ±1.5% Rh, ±0.1 °C (±0.18 °F) Calibration certificate included	IP66 (NEMA4X) A robust metal enclosure Stainless steel probes Probe length options 25 cm and 10 cm (10" and 4") Accuracy ±0.1 °C (±0.18 °F) Calibration certificate included	IP65 (NEMA4) Accuracy ±2% Rh, ±0.2 °C (±0.36 °F) Calibration certificate included Display option

PREMIUM QUALITY TRANSMITTERS

with calibration certificate

LIGHT INDUSTRIAL TRANSMITTERS

Intelligent modular transmitters with exchangeable probes are especially fit for demanding conditions and processes.

	HMT120/130 Series Humidity and Temperature Transmitters	TMT120/130 Series Temperature Transmitters	HMW110 Series Humidity and Temperature Transmitters
			TO STATE OF THE ST
INSTALLATION	Wall-mount, duct-mount, outdoor	Wall-mount, duct-mount, outdoor	Wall-mount
OUTPUT PARAMETERS	Relative humidity Temperature Dew point / frost point temperature Wet bulb temperature Enthalpy Mixing ratio	Temperature	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy
OUTPUT	420 mA 01/05/010 V	420 mA 01/05/010 V	420 mA Modbus RTU
DETAILS	IP65 (NEMA4) Available with fixed and remote probe Interchangeable probes Accessories for duct/outdoor installation Accuracy ±1.5% Rh, ±0.1 °C (±0.18 °F) Calibration certificate included Display option	IP65 (NEMA4) Interchangeable probes Accuracy ±0.1 °C (±0.18 °F) Calibration certificate included Display option	IP65 (NEMA4) Accuracy ±2% Rh, ±0.2 °C (±0.36 °F) Calibration certificate included Display option

UNIQUE SENSOR TECHNOLOGY INSIDE



The unique, cutting-edge Vaisala sensor technologies are manifested throughout our versatile range of products. Accuracy and long-term stability of Vaisala sensors is absolutely the best of class within the industry. When it comes to reliable measurements, Vaisala products are in the league of their own.

GENERAL PURPOSE TRANSMITTERS

for HVAC controls

The general purpose HVAC transmitters are renowned for their long lifetime and low total cost of ownership, their reliability and negligible maintenance needs throughout the product life cycle.

	HMW82/83 Humidity and Temperature Transmitters	TMW82/83 Temperature Transmitters	GMW83/84/86 Carbon Dioxide, Humidity and Temperature Transmitters	GMW87/88 Carbon Dioxide Transmitters
		(5)	<u> </u>	
INSTALLATION	Wall-mount	Wall-mount	Wall-mount	Wall-mount
OUTPUT PARAMETERS	Relative humidity Temperature	Temperature	Carbon dioxide Relative humidity Temperature	Carbon dioxide
OUTPUT	420 mA	420 mA	420 mA	420 mA, 010 V
OPTIONS	010 V	010 V	010 V	Modbus RTU (GMW87)
DETAILS	IP30 enclosure Accuracy ±3% Rh, ±0.5 °C (±0.9 °F) Display option	IP30 enclosure Accuracy ±0.5 °C (±0.9 °F)	IP30 enclosure Display option (GMW83) LED CO ₂ indication (GMW83A) Range: 02000 ppm Accuracy ±60 ppm at 1000 ppm CO ₂ , ±3% Rh, ±0.5 °C (±0.9 °F)	IP64 enclosure Range: 05000 ppm Accuracy ±60 ppm at 1000 ppm CO ₂
	HMW88/89 & TMW88 Humidity and Temperature Transmitters	HMD82/83 Humidity and Temperature Transmitters	TMD82/83 Temperature Transmitters	GMD20 Carbon Dioxide Transmitters
	Humidity and	Humidity and		Carbon Dioxide
INSTALLATION	Humidity and Temperature Transmitters	Humidity and		Carbon Dioxide
INSTALLATION OUTPUT PARAMETERS	Humidity and Temperature Transmitters	Humidity and Temperature Transmitters	Temperature Transmitters	Carbon Dioxide Transmitters
OUTPUT	Wall-mount Relative humidity Temperature Dew point temperature Wet bulb temperature	Duct-mount Relative humidity Temperature Dew point temperature Wet bulb temperature	Temperature Transmitters Duct-mount	Carbon Dioxide Transmitters Duct-mount

OUTDOOR TRANSMITTERS

for all HVAC applications

Versatile selection of outdoor measurements offers you a wide perspective on prevailing outdoor conditions.

	HMS110 Series Humidity and TemperatureTransmitters	HMS82/83 & TMS82/83 Humidity and Temperature Transmitters	GMP252 Carbon Dioxide Probe with DTR250 Radiation Shield	WXT530 Series Weather Transmitters
	5	(5)	44	
INSTALLATION	Outdoor model with integrated radiation shield	Outdoor model with integrated radiation shield	Outdoor model with radiation shield	Outdoor model with integrated radiation shield
OUTPUT PARAMETERS	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy	Carbon dioxide	Air pressure Temperature Humidity Rainfall Wind speed Wind direction
OUTPUT OPTIONS	420 mA 010 V Modbus RTU	420 mA 010 V	420 mA 010 V Modbus RTU	Modbus RTU
DETAILS	Ingress protection IP65 Accuracy ±2% Rh, ±0.2 °C (±0.36 °F) Calibration certificate included	Ingress protection IP65 Accuracy ±3% Rh, ±0.3 °C (±0.54 °F)	CO ₂ measurement ranges: 02000/3000/ 5000 ppm Accuracy ±40 ppm at 400 ppm CO ₂	Accuracy ±0.5 hPa, ±0.3 °C (±0.54 °F), ±3% Rh, ±3% at 10 m/s

HANDHELD METERS

for spot-checking and calibration

Portable handheld meters for field-checking, calibration, and adjustment are easy to use wherever you are.

	HM40 Handheld Humidity and Temperature Meter Series	HM70 Handheld Humidity and Temperature Meter	GM70 Handheld Carbon Dioxide Meter
ТҮРЕ	Humidity and temperature meter	Humidity and temperature meter	Carbon dioxide meter
OPERATING TEMPERATURE	Operating temperature range -40+100 °C (-40212 °F), depending on probe	Operating temperature range -70 °C+180 °C (-94356 °F), depending on probe	Operating temperature range: -20+60 °C (-4+140 °F)
CONNECTIVITY	No connections to fixed instruments	Data logging and data transfer to PC	Data logging and data transfer to PC
DETAILS	Four models available	Three remote probe options Calibration interface with the HVAC instruments HMW90, HMD60, HMDW110, HMT120/130	Wide selection of CO ₂ measurement ranges Calibration interface to the HVAC instruments GMW90 & GMD20







Instrument Expert Original factory packaging www.dorgean.com

